11 Appendix: 510(k) Summary

This summary of 510(k) safety and effectiveness information is being submitted in accordance with the requirements of SMDA 1990 and 21 CFR § 807.92.

I. General Information.

Establishment:

Address: Siemens Medical Solutions, Inc.

186 Wood Avenue South

Iselin, N.J. 08830

Registration Number:

2240869

Contact Person:

Mr. Jamie Yieh

Senior Technical Specialist, Regulatory Affairs

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Date of Summary Preparation:

October 23, 2002

Device Name:

•Trade Name:

6 Channel Body Coil

Classification Name:

Magnetic Resonance Diagnostic Device, CFR § 892.1000

•Classification: Class II

• Performance Standards:

None established under Section 514 the Food, Drug, and

Cosmetic Act.

II. Safety and Effectiveness Information Supporting Substantial Equivalence.

• Device Description:

•Intended Use

The MAGNETOM system with the 6 Channel Body Coil is a whole body scanner. The MAGNETOM system with the 6 Channel Body Coil is indicated for use as diagnostic imaging device to produce transversal, sagittal, coronal and oblique images of the internal structures of the body. The images produced by the MAGNETOM system with the 6 Channel Body Coil reflect the spatial distribution of protons (hydrogen nuclei) exhibiting magnetic resonance. The MR properties that determine the image appearance are proton density; spin lattice relaxation time (T1), spin-spin relaxation time (T2) and flow. When interpreted by a trained physician, these images provide information that can be useful in determining a diagnosis.

• Technological Characteristics

The MAGNETOM systems with the new 6 Channel Body Coil is substantially equivalent to the predicate MAGNETOM systems.

• General Safety and Effectiveness Concerns:

Operation of the MAGNETOM Symphony/Sonata and Upgrades to Symphony/Sonata systems with the 6 Channel Body Coil is substantially equivalent to standard operation of the commercially available MAGNETOM Symphony/Sonata/Upgrades to Symphony/Sonata systems. The following safety parameter with action levels:

- Maximum Static Field Strength
- Rate of Change in Magnetic Field
- RF Power deposition
- Acoustic Noise Levels

and performance levels:

- Specification Volume
- Signal to Noise
- Image Uniformity
- Geometric distortion
- High contrast spatial resolution
- Slice profile, thickness and gap

specified by the FDA guidance document for MR Diagnostic Devices are unaffected by the modifications described within this notification. The 6 Channel Body Coil was tested for SNR and Image uniformity and the results

presented in this submission show that they are equivalent with the predicate devices described in this submission.

• Substantial Equivalence:

Laboratory and clinical testing were performed to support this claim of substantial equivalence and to show that the technological differences do not raise any new questions pertaining to safety and effectiveness.



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Food and Drug Administration 9200 Corporate Boulevard Rockville MD 20850

Mr. Jamie Yieh Senior Technical Specialist, Regulatory Affairs Siemens Medical Systems, Inc. 186 Wood Avenue South ISELIN NJ 08830 Re: K023571

Trade/Device Name: 6 Channel Body Coil

for MAGNETOM Systems

Regulation Number: 21 CFR 892.1000 Regulation Name: Magnetic resonance diagnostic device

Regulatory Class: II Product Code: 90 MOS Dated: October 23, 2002 Received: October 24, 2002

Dear Mr. Yieh:

We have reviewed your Section 510(k) premarket notification of intent to market the device referenced above and have determined the device is substantially equivalent (for the indications for use stated in the enclosure) to legally marketed predicate devices marketed in interstate commerce prior to May 28, 1976, the enactment date of the Medical Device Amendments, or to devices that have been reclassified in accordance with the provisions of the Federal Food, Drug, and Cosmetic Act (Act) that do not require approval of a premarket approval application (PMA). You may, therefore, market the device, subject to the general controls provisions of the Act. The general controls provisions of the Act include requirements for annual registration, listing of devices, good manufacturing practice, labeling, and prohibitions against misbranding and adulteration.

If your device is classified (see above) into either class II (Special Controls) or class III (PMA), it may be subject to additional controls. Existing major regulations affecting your device can be found in the Code of Federal Regulations, Title 21, Parts 800 to 898. In addition, FDA may publish further announcements concerning your device in the Federal Register.

Please be advised that FDA's issuance of a substantial equivalence determination does not mean that FDA has made a determination that your device complies with other requirements of the Act or any Federal statutes and regulations administered by other Federal agencies. You must comply with all the Act's requirements, including, but not limited to: registration and listing (21 CFR Part 807); labeling (21 CFR Part 801); good manufacturing practice requirements as set forth in the quality systems (QS) regulation (21 CFR Part 820); and if applicable, the electronic product radiation control provisions (sections 531-542 of the Act); 21 CFR 1000-1050.

This letter will allow you to begin marketing your device as described in your 510(k) premarket notification. The FDA finding of substantial equivalence of your device to a legally marketed predicate device results in a classification for your device and thus, permits your device to proceed to the market.

If you desire specific advice for your device on our labeling regulation (21 CFR Part 801), please contact the Office of Compliance at one of the following numbers, based on the regulation number at the top of this letter:

8xx.1xxx	(301) 594-4591
876.2xxx, 3xxx, 4xxx, 5xxx	(301) 594-4616
884.2xxx, 3xxx, 4xxx, 5xxx, 6xxx	(301) 594-4616
892.2xxx, 3xxx, 4xxx, 5xxx	(301) 594-4654
Other	(301) 594-4692

Additionally, for questions on the promotion and advertising of your device, please contact the Office of Compliance at (301) 594-4639. Also, please note the regulation entitled, "Misbranding by reference to premarket notification" (21 CFR Part 807.97). Other general information on your responsibilities under the Act may be obtained from the Division of Small Manufacturers, International and Consumer Assistance at its toll-free number (800) 638-2041 or (301) 443-6597 or at its Internet address http://www.fda.gov/cdrh/dsma/dsmamain.html.

Sincerely yours,

Vancy Chroadon
Nancy C. Brogdon

Director, Division of Reproductive, Abdominal, and Radiological Devices

Office of Device Evaluation

Center for Devices and Radiological Health

Enclosure

3 Appendix: Indications for Use Statement

In accordance with FDA requirements (as of 1/1/96), the indications for use statement is attached on a separate page.

Device Name: 6 Channel Body Coil for MAGNETOM systems

Indications for Use:

The MAGNETOM system with the 6 Channel Body Coil is a whole body scanner. The MAGNETOM system with the 6 Channel Body Coil is indicated for use as diagnostic imaging device to produce transversal, sagittal, coronal and oblique images of the internal structures of the body. The images produced by the MAGNETOM system with the 6 Channel Body Coil reflect the spatial distribution of protons (hydrogen nuclei) exhibiting magnetic resonance. The MR properties that determine the image appearance are proton density; spin lattice relaxation time (T1), spin-spin relaxation time (T2) and flow. When interpreted by a trained physician, these images provide information that can be useful in determining a diagnosis.

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